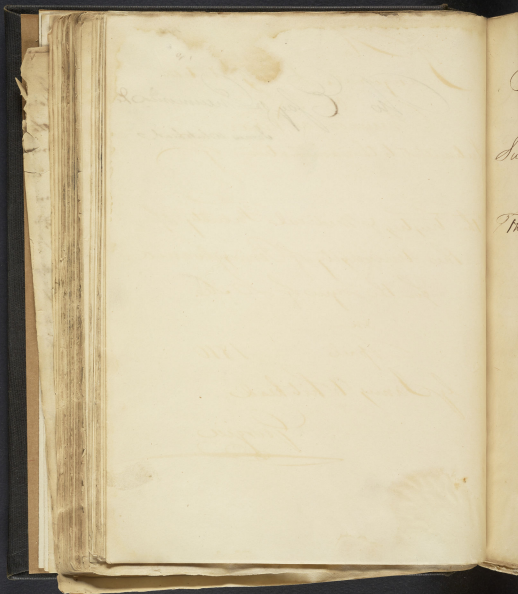


1870

No. 3

No Essay on Pneumonia &c  
James Whitbread



An  
Inaugural Dissertation  
on  
Pneumonia Vera  
Submitted to the examination of

The Trustees & Medical Faculty of  
the University of Pennsylvania  
for the degree of L. M.

on  
April 1870  
by James Whitehead.

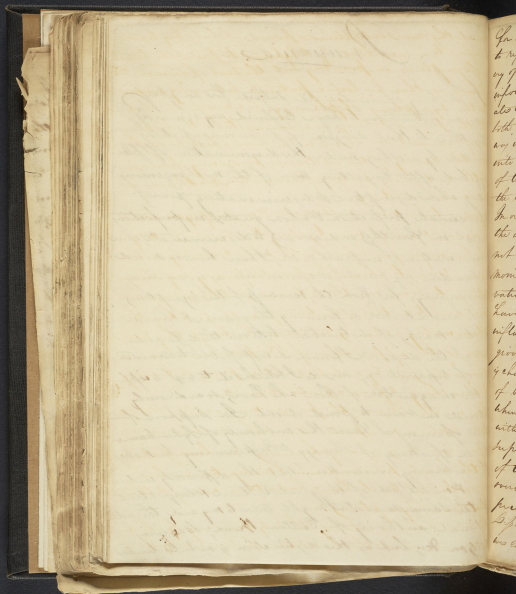
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# Pneumonia.

In making choice of a fit subject for an essay  
it was my intention to have confined my remarks,  
altogether to that division of pneumonic affections  
described by authors under the denomination of phle-  
rigy, but after consulting some of the most ingenious  
writers, whose descriptive & discriminating powers  
approach to perfection & whose greatest imperfections  
consist in fruitless endeavouring to discriminate where  
discrimination is impracticable, I have been induced  
to abandon my previous determination as injudicious  
& unnecessary: for from the sameness of the symptoms  
which are detailed as forming the generic charac-  
teristic marks of distinction between the different  
kinds of the disease I found it impossible to draw a  
line of separation, nor do I believe it to exist  
in the imagination of those who have so ardently  
laboured in vain to point it out. In support of  
this opinion I have the authority of Sydenham  
for in speaking of Phlegmy & Purpurumony he makes  
the following observation, "that they differ only in de-  
gree & in respect of the great vessels & lungs & tend  
to the same cause." I might call to my aid the ad-  
ditional authority of Cullen, Brown, Barwin,  
Wilson &c, but as the distinction is not contended



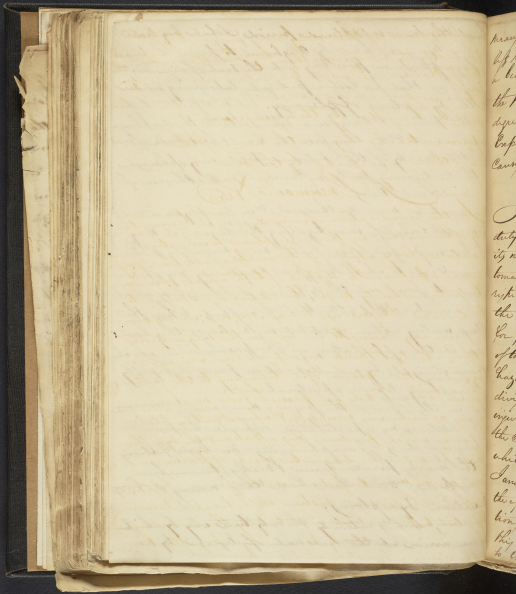
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For at this more enlightened period, I shall be glad to refer to a case cited by Elghorn to prove the truth of symptoms in pointing out the seat of disease, the informing us that he lost a patient labouring under also the symptoms of pleurisy, but on dissection he found both the pleura & lungs in a sound state, the diaphragm was inflamed & ran along in the line which had opened into the cavity of the abdomen, producing separation of the contiguous parts, inflammation & adhesion of the small intestines.

In order to be more methodical & in compliance with the usual form of investigating this disease, it may not be improper before I enter more minutely on Pneumonia to which I propose confining my observations, to point out the different subdivisions which have arrested the attention of authors. When the inflammatory action is seated in the lungs, they have given it the appellation of Pneumonia, which is characterized by a dull & obtuse pain, difficulty of breathing, & purging & expectoration &c.

When in the Pleura, the pain is more acute, attended with little or no expectoration I should determine supervenit it is Empyema. An enlargement of the heart, pericardium & mediastinum, been overlooked. Each have had their name & their peculiar symptoms.

Dissection, which is certainly the only true way by which we can arrive at the real seat of disease, by no



many Continuance, then imaginary diagnosis, & I should  
diffidently relinquish them, as unattainable, from  
a belief, that were it possible to ascertain from symptoms  
the precise part affected, we should not in the smallest  
degree be benefited by the acquisition.

Experience teaches they are the result of the same  
Cause & their cure effected by the same remedies.

### *Pneumonia Vera.*

In the consideration of every disease, it becomes the  
duty of the author in the first place to investigate  
its nature, that is, whether it be an Idiopathic or Sym-  
ptomatic affection. In support of both which opinions  
respectable authority might be adduced relative to  
the disease, I before us, but as it is not uncommon  
for primary Cause to be lost in the magnitude  
of their effects, I think myself at least very safe in  
hazarding the opinion of its belonging to the latter  
division, when it does not proceed from mechanical  
injury, as Contusion, wound &c. & when I contemplate  
the Cause which produces this affection & the symptoms  
which precede the diagnostic marks of *Pneumonia*.

I am much more confident in this opinion of its being  
the effect of a diseased system with local determina-  
tion, but to prove more convincingly the correctness of  
this opinion, it will only be necessary to pay attention  
to the primary symptoms of the disease.

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Those who are most subject to pneumonia is y<sup>e</sup> remainder  
and the strong vigorous, & plethoric, who use much exercise,  
& readily digest their food, & particularly those of this  
description who are subject to Coughs. It is most apt  
to occur Dr Cullen informs us between the age of  
forty-five & sixty, but no age is exempt from it, it may  
& does occasionally occur at every period of life, from  
the cradle to very advanced age, altho' we may expect to  
meet with it much more frequently at the time of life  
mentioned by our author. - The most frequent remote  
cause of pneumonia is a long exposure to cold damp  
weather or a sudden change from cold to heat & vice  
versa. I cannot understand Dr Cullen, when he  
says the cause already pointed out, produces the  
disease by checking perspiration & determining to  
the lungs, & that the cold & long exposure coming in contact  
with the skin would rather suppose it is the result  
of the great sympathy which exists between the skin  
& lungs, & that the cold & long exposure coming in contact  
with the skin produces debility which is communicated  
to the respiratory organs, thereby rendering them  
more irritable, so much so that an exciting cause, viz  
only necessary to give rise to that high grade of  
inflammation which characterizes the disease. It  
may however much increase the violence of the disease  
by checking perspiration; for by so doing, the temperature  
of the body would be increased & consequently the inflamma-  
tion intensified & the grade of the inflammation as

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Dr. Brown remarks, & always in proportion to the disten-  
sion, they not also act as a remote & exciting cause, by in-  
creasing debility in the pulmonary organs? From the im-  
mediate connection which exists between them & the exte-  
rial air? I think this conjecture not an improbable  
one, as experience teaches that the lungs are mutually  
affected by the rarity & density of the air & by the  
temperature? It is only if it is admitted, that  
a greater degree of debility or predisposition to take  
on morbid action may be present in the lungs, than  
exists in other parts of the system, that this pre-  
disposition may be produced by causes which do not af-  
fect the general system in an equal degree. I should  
suppose it difficult to account why long & loud speak-  
ing, singing, playing on wind instruments, or any in-  
ordinate exercise of the lungs, which are justly con-  
sidered by authors among its causes, but if it should  
happen to be the fact, that the lungs that may be more  
predisposed to receive, than any other part of the  
system, from the effect of the causes already enumerated,  
the difficulty vanishes at once: for an exciting cause  
only wanting to act on this predisposition of the sys-  
tem to take on disease, which will always be in  
proportion to the quantum of predisposition & force  
of exciting cause. If the former exists in a greater de-  
gree in the lungs, than in any other part, it follows of

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cause that the excitement there will be greater & which  
are joined actually to the cause. Another Cause of pleu-  
mory Dr Darwin <sup>supposes</sup> ~~by~~ another adhesion which are in most  
instances found to exist between the lungs & pleura, which  
he supposes to be formed in early life from particu-  
lar inclination of the body. I lay not <sup>there</sup> adhesion lay  
the foundation <sup>for the pleurisy</sup> to the disease, which Professor Rush has  
usually to exist often after the first attack. In proof of  
the correctness of his opinion a quotation, he informs us  
he has cured one man in this City 24 or 25 times of  
Pleurisy. Other causes are said to produce the disease  
as excessive eating & drinking &c; but thirdly pyrexia is  
most in many act as exciting Cause. I would not  
wish to be understood as conveying an idea that a  
pre-disposition in the lungs is alone sufficient for the  
formation of the disease. My idea is that there is mor-  
bid disposition in the whole system to take on morbid action,  
which being produced & capability being greatest in the lungs  
we are to expect that the same Cause which produces  
excitement in the general system will produce a greater  
degree of excitement in the lungs where the pre-  
disposition is greater, in which opinion I think I  
am supported by the symptoms which precede &  
which characterise the symptoms of the disease,  
which I shall next present to you.

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The symptoms which precede what is strictly called  
Pneumonia vera, are a sense of lassitude, depression  
of a weak frequent pulse, attended with chill  
shivering alternating with flushes of heat, they  
finally cease & fever supervenes accompanied  
with heat, thirst, anxiety & so the symptoms  
which characterize the common inflammation of  
synchus state of fever, which continuing for  
many hours & even days perhaps before we  
discover the diagnostic marks of pneumonia, which  
are pain, difficulty of breathing, cough & a  
strong, hard & quick pulse. These are the more  
uniform symptoms, those which are said more  
directly point to the throne of the disease, and  
so variably, that I shall endeavour to speak more  
minutely of them, as it is from an intimate  
acquaintance with them that we are alone  
able to form a judgement of the probable issue  
of the disease.

The pain & pyrexia is occasioned by the con-  
sisting inflammation & probably in some  
degree by the adhesion which takes place  
between the cells of the lungs or between the  
membranes attached to them & pleura. It  
follows of course that the extension of the  
former & the pressure with that extension

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must make in the latter, can have no other effect than to produce pain, by the sensibility of the parts are much increased. the pain differing as respects kind & degree; it is increased at each inspiration, it is increased & rendered more tolerable by different positions of the body. Lying on the back will sometimes afford ease, when the patient cannot rest on either side, nor is it unfrequent to see the unhappy sufferer compelled to abandon a horizontal & such relief in an erect position or posture. The seat of the pain is not confined to any particular part, though most frequently in one or the other side, & often shifts from part to part of the thorax. Sometimes extending as high up as the clavicle & scapula & as low down as the kidneys — the fact of the pain's shifting its seat affords ground for very good evidence <sup>that it is</sup> a secondary affection. The difficulty of breathing depends much on the same cause which induces pain, when the latter exists we may always certainly expect to find the former in a greater or less degree & so much are they influenced by similar circumstances that to describe the one is to point out the principal variations of the other —

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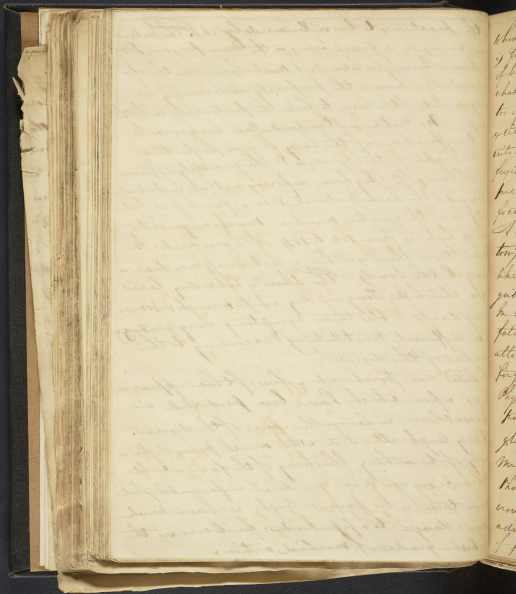
The cough which is one of the most disagreeable & also  
a painful occurrence in Pneumonia affecting them  
its tendency in most instances to increase the pain  
& inflammation, is caused by an effused or extravasated  
fluid within the trachea or its ramifications  
which acts as an irritant on those parts rendered  
more acutely sensible by inflammation. It is  
mostly dry in the commencement of the disease,  
afterwards becoming humid & attended with  
expectoration of mucus, sometimes resem-  
bling pus, streaked with blood & colored with  
a brown or black matter, it differs however  
much as to quantity, consistence & color in  
the different stages of the disease.

There is no circumstance connected with this  
disease which merits in so pre-eminent a degree  
the attention of the Physician as the pulse, in  
practice it must be our pilot, by which we  
must be directed: for without a knowledge  
of it we can neither practice correctly or  
successfully in this or any other form of disease.  
It is in most instances strong, hard, quick & frequent  
it is not alike in all cases, nor made it be expected, it  
like other symptoms subject to variation —  
but occasionally find it intermitting, irregular &  
depressed, this should be recollected, particularly

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as the practice is to be influenced by it. The pulse  
even varies in different arms on the same person, Dr.  
Chapman observing he found it most serene in the op-  
posite side, hence the propriety of allowing a  
judgement of the case, to rule the pulsation in both  
arms. No certain standard can be given to  
the temperature of the body. It is in proportion  
to the height of the Pyrexia & the quantity of pers-  
piration. Dr Chapman informs us that internally  
he found the heat natural & on a few lips so, but  
on by far the greater number much augmented,  
even as high as from 102 to 104 of Fahrenheit. In  
most cases there is either a Coryza or a diar-  
rhea of the bowels. The skin is hot & dry, face  
& eyes flushed, tongue dry, white & rough & some-  
times dark. All these symptoms vary according  
ly in different constitutions & according to the  
grades of the disease.

I shall now point out a few of those appear-  
ances, upon which have been predicted a  
favorable or unfavorable issue of the disease.  
A dry Cough attended with much pain, diffi-  
culty of breathing, flushing of the face, a wild  
& staring eye &c are considered unfavorable, but  
when there is no pain or Cough, we have much  
more danger to apprehend: for it evinces the  
highest grade of morbid action.



When the stupor has arrived at <sup>the</sup> advanced period, there  
is frequently an abatement of pain, which the difficulty  
of breathing still continuing, which so far from being  
what many have supposed a favorable symptom, is  
too often the precursor of death. I shew that the  
excitability is exhausted, that the excitement is converted  
into a basis of the inflammation, & that the res-  
olution which Dr. Cullen considers as a termination  
peculiar to the lungs is about to take place & suffo-  
cation & immediate death are the consequences.  
A cessation of pain the alarming & troublesome sym-  
ptom similar to this is mentioned by Celsus, as  
likely to occur about the third day & re-  
turning again on the fourth or fifth with increased violence.  
In such cases the termination is for the most part  
fatal. This insidious remission deserves peculiar  
attention, the circumstances should never be  
forgotten. It would, if not noticed, give the  
Physician a favorable, the false opinion of the  
patient's case & he would be apt to be mis-  
guided, when he stood in the most need of  
Medical aid. Dr. Celsus honestly confesses  
that he was frequently deceived by these treach-  
erous intermissions, remission, & to the great dis-  
advantage of his patients. The transi-  
tion of pain has been considered by some as a dangerous

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Not only as a favorable symptom, but I presume  
depending altogether on the part to which it is translated.  
If from a vital to a part less important to life I  
should always consider it as favorable - Wilson says  
always favorable when the pain is translated from  
the thorax to the arm; bilious eruptions add  
our author generally terminating the disease, when  
they occur. Sydenham & Cheghorn have both  
left testimony in favor of the salutary tendency  
of dysipulatory inflammation in removing the  
disease - Should the pulse be slow, intermittent  
or natural, Cheghorn, informing us we have the  
greatest danger to fear. This observation is con-  
firmed by professor Rush. Hæm & copious  
expectoration without much straining or cough  
is always favorable, should it be thickened with  
blood we need not be alarmed, it is in the last  
stage a good sign. A copious discharge of urine  
which after standing a short time, becomes  
turbid & deposits a thick sediment indicating  
a happy termination. So much confidence has  
Cheghorn placed in this circumstance, that he says  
he has known it alone cause a favorable crisis of  
the disease. When the patient is able to sleep  
profoundly in a natural or horizontal position

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without starting or manifesting any symptoms of disturbance, when he can make a full inspiration without much difficulty a pain, conjoined with some of the salutary symptoms already hinted at we may with propriety inform him that the storm is over, & that with prudent care he may calculate on being soon restored to the army of Health & Security. (D)

Pneumonia Vera which differs from inflammation in no other part, except in seat & degree, may terminate in resolution, suppuration & gangrene. It may end by effusion of which I have before spoken, by inducing Ebydrothorax, Ebydrops pulmonis & dropsy of the pericardium. The termination by resolution is the only one which holds forth hope of complete restoration to health. It is indicated by the most of the symptoms which have been enumerated as salutary such as the free expectoration of thick, white or yellowish matter tinged with blood, a copious discharge of urine which deposits a turbid sediment & general spontaneous sweat. Should not these favorable symptoms show themselves before the seventh day we have reason to fear suppuration, which may however be protracted to a much later period. Dr Cullen remarks, to the L.A.P. as we are informed by Dr Wilson that

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resolution may take place after the dyspnea has con-  
tinued for four or five weeks. But at any period  
of the disease, should the patient be affected with  
paralytic cold & shivering, should his pulse become  
more or less frequent, full & soft, we may conclude  
that the suppurative process has already commenced.  
Added to the above symptoms, should there be an  
obstinate dry cough, should there continue with  
difficult breathing, while the pain becomes less,  
should thirst be considerable, with night sweats  
& at irregular intervals, should the lips & cheeks  
become of a circumscript red appearance  
attended with a pallid countenance, emaciation  
or a great debility of the body, we can have little  
doubt but that the suppurative process has progressed  
& that an abscess is formed. The tendency to gang-  
rene, which is the most fatal but ~~the~~ fortunately  
the most rare termination, may be known from  
the great violence of the disease existing all the  
day, when it supervenes there is a partial or total  
cessation of pain, difficulty of breathing, the  
pulse becoming weak, frequent & intermitting, the  
cheeks become of a red livid hue, the breath  
fetid, the matter expectorated of a purgy an-  
ichorous appearance, a dim eye & distorted  
countenance &c. are the harbingers of approaching  
death—

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It would be proper in this place to give some account of the appearances on dissection, but as I have nothing to say from my own observation, I must refer to books, where they are to be found as much more correctly detailed than I could give them. I shall therefore pass them over & proceed to the methods of treatment of Pneumonia.

The remedy by which this disease has been subjected to the dominion of medicine, have by all Physicians been divided into generals & locals.

Under the first head it to be considered that potent & invariably sure remedy Bloodletting, deprived of which in the treatment of this disease, the bating of medicine would be but too frequently summoned to the bed of affliction, only to witness the impotence of their Science. It may justly be styled the anchor of hope in the treatment of this disease before us - which has been said of the quantity of blood it is proper to take from a patient laboring under Pneumonia. When we consider the variety of Constitution that may be affected by it & the different grades of the signs which may appear in each Constitution, even in the same at different times, it will readily be

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Perceives, that it is impracticable to specify the quantity which any one attack of the disease may demand. We are informed by Dr. Sydenham that he seldom knew a true pleurisy cured without the loss of 40 Oz. of blood & Chapman has left on records invaluable testimony in favor of copious bleeding. He remarks the pleurisy was incurable by bleeding only when drawn with a timid hand & in too small quantity - He scarcely ever met with a case so violent, but he could control, after he disengaged himself from the train into which the ignorance & prejudice of his predecessors, had thrown about him & adapted a practice at once bold & salutary - for he often derived the greatest advantage from drawing upwards of 350 of blood in the course of 4 or 5 hours, even this quantity <sup>was not</sup> ~~was~~ not infrequently found too small. There can be no rule given, the physician's judgment, must be altogether influenced by the constitution of the patient, age, climate, body position, the nature of the prevailing Epidemic & above all the grade of the disease. If a physician forms his judgment by these circumstances & regulates his practice accordingly, reputation follows with reward.

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The most effectual direction, that can be given, is, to bleed until the pain & difficulty of breathing are relieved, the arterial action reduced or until syncope is about to commence. We are advised to the advice & minute attention, that if our patients are apt to faint to bleed them in a horizontal position or to have the head inclined lower than the body: for it will in most cases syncope. The reason of this precaution (says Dr. Rotherham) is evident, viz, that while the motion of the heart is suspended during fainting the blood stagnates in the right side of the heart & is afterwards thrown with great impetuosity against the lungs. Fainting from the first bleeding should not prevent a repetition of it, if necessary, or we may with confidence assure the patient that it will not again occur. Both Dr. Cullen & Professor Puzos bear testimony of the truth of the remarks.

Having determined on the propriety of bleeding, as subject of enquiry among Physicians has arisen, viz. from what part should it be taken. Relative to such enquiry a dispute little need be said, as it is a circulating cause of minor consideration. Should it put the Patient to no

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in convenience, I should deem it most proper  
to follow the directing of those who directed it  
to be taken from the arm of the affected side  
from the circumstance of the pulse varying in  
force & frequency in the different arms. Sometimes  
there may be good foundation for this prac-  
tice. The blood drawn from different arms  
has exhibited different appearances of dis-  
ease. For a known case of this fact I am in-  
debted to Professor Rush. Bleeding has been  
objected to after the disease has existed four  
or five days. Although most effectual in the  
early part of the disease, yet it is proper I  
should be employed at any stage, provided  
the symptoms indicate it. It has been  
condemned upon the ground of its thwarting  
the operation of nature in carrying off  
the disease by expectoration, sweating &c;  
These objections are neither supported by  
experience or theory. Dr Cullen remarks so  
for from checking expectoration he has known  
it increased by bleeding. Clough informs  
us a patient who had a pain in his right  
side for which he had been bled, who  
was cured by expectancy from the right nostril

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The discharges of blood though in considerable  
brought on a profuse sweat & thereby effected a  
cure. Hence we see bloodletting in certain states  
of the system, & our best diaphoretic & expectorant.  
None any Sydenham unacquainted with this fact  
when he makes the orifices of a vein perform the  
function of a windpipe. The fear of inducing  
debility must be no obstacle to the free use of the  
lancet, as Chyhorn remarks that those who lost  
a large quantity of blood recovered their health  
& strength very soon, while on the contrary, those  
that are more sparingly bled continued in  
a languid & infirm state for many months  
without being able to get rid of the pain &  
cough. The second remedy is purging. We need  
not expect any very great advantage from them in  
this complaint. After the violence of the symp-  
toms have been reduced by bleeding it has  
been found advantageous to exhibit Cathar-  
tic medicine. This was the practice of Syden-  
ham, Chyhorn & Wilson. The ~~two~~ latter recom-  
mended mercurial purges. The bowels in  
all cases should be kept open, as well  
as purges, lastly glysters should by no means  
be neglected.

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Emetic Medicines are always improper except when exhibited in such doses as only to irritate the stomach with this intention they act as important remedies, by promoting expectoration & detersion to the skin. In this purpose the different preparations of Antimony have generally been preferred.

The practice of Sweating in this disease, has long retained the confidence of many Physicians, but it should be had recourse to with great caution: for it is always a dangerous & improper remedy while the inflammatory action continues. If it occur spontaneously it should be promoted by moderately warm drinks as barley water, flax seed tea, sage & chamomile tea &c. After the inflammatory action is removed by the bleeding already mentioned should a Cough remain attended with general debility, which is not unfrequently the case, it will be proper to give Stimulating Medicines as Opium, Cal. alk. &c. The Mixture Mercurologica as prepared in the Hospital is perhaps one of the best remedies for the Cough, Mercurologica daily preparations have the same happy effect should be advised.

